ABRAM URBAN DISTRICT COUNCIL.

Medical Officer's Annual Report, 1907.

SPRINGFIELD HOUSE,

ABRAM,

JANUARY, 1908.

To the Chairman and Members of the Abram Urban District Council.

GENTLEMEN,

I have much pleasure in presenting you my Third Annual Report on the health of your Township for the year ending December 31st, 1907, together with the Vital Statistics appertaining thereto, as well as copies of these Statistics which are required by the Local Government Board, Home Office, and County Council; and in doing so I venture to point out that although our death rate is slightly higher (·48) than last year, and our birth rate (26·81) the lowest recorded for some considerable time, when we take into consideration the climatic conditions which have prevailed throughout the year, and which, while they have reduced very materially the mortality from Diarrhœa and its allies, they have undoubtedly caused more deaths from respiratory diseases, we have done very well indeed.

Another very satisfactory feature is the reduction in the number of deaths under 1 year of age, viz., 28, as compared with 31 the previous year, and 48, the average for the preceding 10 years.

Below will be found a detailed statement of deaths and births registered.

Deaths.—93 deaths altogether have been registered belonging to the district, 88 of which were registered in the district, and 5 which occurred in institutions beyond the district. The total death rate is 12·98 per thousand, ·48 higher than last year, but much lower than the 20·51 which is the average for the previous decade.

I have calculated these deaths on a population of 7,160, as estimated to the middle of the past year. The estimate of the population is slightly lower than last year, because about the middle of the year there were several houses in various parts of the Township uninhabited.

The ages at death are as follows:—Under 1 year, 28; 1 to 5 years, 17; 5 to 15 years, 10; 15 to 25 years, 5; 25 to 65 years, 24; and over 65 years, 9.

Their Ward Distribution is as follows:—

	Total Deaths.	Deaths Under 1 Year.	Rate per Thousand of Population.
Abram Brow	24	.. 7	.. 10·95
Bamfurlong	30	.. 11	.. 12·64
Bickershaw	19	.. 3	.. 12·84
Plank Lane	20	.. 7	.. 17·79

On comparing the above table with the one for the previous year, one finds that in Abram Brow Ward the death rate is 5·45 per thousand lower. In Bickershaw Ward it is ·74 higher, and in Bamfurlong and Plank Lane Wards it is 3·84 and 4·39 per thousand higher respectively, and as regards infants under 1 year, Abram and Biekershaw Wards are lower by 6 and 2 respectively, and Bamfurlong and Plank Lane Wards are higher by 2 and 3 respectively.

Zymotic Rate.—21 deaths from Zymotie Diseases (ineluding Erysipelas and Diarrhœa) have taken place. This is 3 more than in the preceding year, and gives a rate of 2·93 per thousand, whieh is higher by ·15 than last year. This zymotie rate eomprises deaths from Measles 5, Scarlet Fever 1, Whooping Cough 4, Membraneous Croup 1, Enteric Fever 3, Diarrhœa 6, and Erysipelas 1, and is tabulated below as follows :—

	Death from Zymotie Diseases	and Rate per Thousand of Population.
Abram Brow	3	1·36
Bamfurlong	7	2·94
Biekershaw	2	1·35
Plank Lane	9	8·0

Births.—192 births have been registered during the year, consisting of 110 boys and 82 girls (2 boys and 1 girl illegitimate). This gives a birth rate of 26·81 per thousand of a living population. This is by far the lowest rate recorded for over ten years, and eompares in point of numbers very unfavourably with 33·1 and 40·25 per thousand for the previous year, and the average for the last 10 years respeetively.

The Ward Distribution is as follows :—

	Boys.	Girls.	Total.	Rate per Thousand of Population.
Abram Brow	29 ..	24 ..	53 ..	24·2
Bamfurlong	43 ..	26 ..	69 ..	29·03
Biekershaw	23 ..	19 ..	42 ..	28·5
Plank Lane	15 ..	13 ..	28 ..	24·91

Notifications.—88 cases of Infeetious Diseases have been notified during the year, this being an increase of 24 over the previous year. They eonsist of Diphtheria and Membraneous Croup 34, Erysipelas 16, Scarlet Fever 30, and Enteric Fever 8.

The Ward Distribution being :—

	Abram Brow Ward.	Bamfurlong Ward.	Bickershaw Ward.	Plank Lane Ward.	Total.
Scarlet Fever ..	11 ..	5 ..	1 ..	13 ..	30
Diphtheria ..	12 ..	17 ..	3 ..	1 ..	33
Membraneous Croup ..	Nil ..	1 ..	Nil ..	Nil ..	1
Enteric Fever ..	5 ..	2 ..	Nil ..	1 ..	8
Erysipelas ..	7 ..	7 ..	1 ..	1 ..	16
Totals ..	35 ..	32 ..	5 ..	16 ..	88

Of these infectious cases 37 were removed to Isolation Hospital, viz. :—Searlet Fever 22, Diphtheria 9, and Enteric Fever 6, the other cases being treated at home.

Periodicity and General Remarks on Diseases prevalent throughout the Year :—

Scarlet Fever has been present more or less throughout the year (March September and October being the only months in which there were no cases notified), but was more particularly prevalent in May, November and December. Plank Lane Ward is the portion of the Township more particularly affected, 13 of the cases arising in this locality. There was 1 death from this disease—this a girl from Plank Lane who was removed to the Hospital.

Diphtheria has been present also throughout the year, cases being notified in each month (except September and November). It was, however, more particularly present in March and April. A special report was presented referring to this outbreak.

Owing to the fact that there were 4 cases, including the mother in one house, and in the others the isolation was not satisfactory, it was deemed advisable to remove 9 cases to the Hospital. There were no deaths from Diphtheria proper, but there was one death from Membraneous Croup in Bamfurlong Ward.

Diphtheritic anti-toxin is supplied to all practitioners free of charge on application.

Enteric Fever.—8 cases were reported, 5 in Abram Brow Ward, 2 in Bamfurlong, and 1 in Plank Lane.

There were 3 deaths from this disease. The 1 case from Plank Lane was notified as Scarlet Fever, and as such was removed to Hospital, where Typhoid Fever declared itself and proved fatal.

There has been no Small Pox and no cases of Puerperal Fever notified during the year.

Erysipelas has been present more or less during the year, 16 cases having been reported, and 1 case, a child under 4 weeks, terminating fatally.

Of the non-notifiable diseases, Measles appeared in epidemic form in October in Plank Lane Ward, and it was deemed advisable to close St. Andrew's School for three weeks. They have caused 5 deaths, 3 of these being in Plank Lane Ward.

Whooping Cough has been prevalent also, more particularly in Plank Lane. There are 4 deaths from this cause, 1 in Abram Brow, and 3 in Plank Lane.

Diarrhœa and its allies have not been very prevalent this year, and have caused 6 deaths only, as compared with 12 the previous year. These, however, were all in children under 1 year of age. Three of these deaths occurred in Bamfurlong Ward, 2 in Bickershaw Ward, and 1 in Abram Brow Ward. With regard to 2 of these cases which proved fatal in Bamfurlong Ward, they occurred in the immediate vicinity of what has been proved to be a very unsatisfactory sewer. This is now being remedied. I am alluding to the sewer behind Lily Lane and Tetley Street.

Phthisis.—We have 7 deaths from this disease, which compares very unfavourably with that of 1 case for the previous year.

This gives a mortality rate of ·97 per thousand, and is somewhat difficult to account for, although at least 2 of the cases were importations from neighbouring townships.

Other Tubercular Diseases caused 3 deaths, the same number as last year.

Cancer.—5 deaths from this cause, giving a rate of ·69 per thousand, and comparing unfavourably with 1 case and ·13 per thousand of last year.

Respiratory Diseases, consisting of Pneumonia, Bronchitis and Pleurisy, have caused 23 deaths, this being 8 more than in the previous year, and gives the mortality rate of 3·2 per thousand. The cause of this increase is undoubtedly to be found in the weather conditions prevailing throughout the year.

Bickershaw and Bamfurlong Wards are the ones to suffer most from these diseases, they each having 7 deaths, Abram Brow 4, and Plank Lane 5.

Heart Disease.—4 deaths, as compared with 5 the previous year.

Venereal Disease has caused 1 death.

Premature Birth.—2 deaths only from this cause, comparing very favourably with 5 last year.

Other Septic Diseases have caused 1 death in Bamfurlong Ward.

Accidents.—6 deaths from this cause, ·83 per thousand. 2 of these were cases of drowning, 1 crushed at brickworks, and the remaining 3 were Colliery accidents.

Abram Brow Ward had 5 of the cases, the remaining one being in Bickershaw Ward.

Uncertified Deaths.—3, the same as last year; and all other causes numbered 20, equal to a rate of 2·7 per thousand.

The Bakehouses have been visited and found satisfactory. There are no underground Bakehouses.

We have no Slaughter Houses which are used as such. There has been no occasion to seize any unsound meat, a strict supervision having been constantly exercised.

In January of this year information was received of 4 cases of ptomaine poisoning in a house off Kingsdown Road. This was investigated, and on enquiry it was found that the father and mother and 2 children had partaken of some potted meat which had been purchased in Wigan. Happily, the cases ended satisfactorily, and it was found that people in other townships who had partaken of this meat were similarly affected.

Dairies and Cowsheds.—These have been inspected, and it is pleasing to note that all are now supplied with water from the Council's mains.

The Factory and Workshops Act.—41 inspections have been made, and limewashing recommended where necessary; notice also being given for a case of overcrowding.

The premises visited consisted of:—

Bakehouses	8
Workshops	10
Workplaces	12
	30

The Water Supply from the Service Reservoir at Stubshaw Cross, which is supplied by the Liverpool Corporation, has been fairly satisfactory throughout the year. Owing to the repeated breakings of the Liverpool Main, the pressure at times being very small, and the supply irregular in the higher parts of the Township. The quality, as proved by recent analysis, is excellent.

I should, however, like to draw the Council's attention to the fact that what at one time was nothing but fields adjacent to the reservoir, is now built upon and inhabited, and there is always a possibility of pollution, more particularly if infectious disease breaks out. If the Council could come to some arrangement with Ashton Council whereby Mr. Roby or myself might be informed of any infectious disease in this particular locality, special precautions could then be taken.

The average consumption of water her head per day is 8·25 gallons.

Several samples of sewage effluent have been taken during the year, and these have been in the "Goods."

I should like to draw the Council's attention to the work done by the district Nurse during the last twelve months. She has paid 3,327 visits, or an average of 12 visits per working day. By her unfailing kindness and courtesy she has done very good work, and is not only of great assistance to the medical men practising in the Township, but also to the general public by the instruction she gives.

In conclusion, gentlemen, I should like to draw your attention to several matters which are not conducive to the sanitary welfare of the Township.

(1.) The conditions of some of the private streets, particularly Dootson Street, Willow Street, Kingsdown Road, Cross Street, Gibson Street, Barracks, Brown Street, Chapel Street, Bolton House Road and Clegg Street, which are in a very bad state of repair.

(2.) *The State of the School Yards.*—Those of St. John's and St. Andrew's are very bad in wet weather, and I think the Managers would do well to copy the example of the Managers of Bickershaw School, where the whole of the yards are flagged. I may also mention here that the privies at Bickershaw Schools have been converted into water closets, with very satisfactory results.

(3.) *The Playing of Children in Closets.*—One very frequently sees this, and it is a very objectionable thing, particularly in summer, and must undoubtedly lead to disease of an infectious nature being absorbed into their systems.

(4.) *The Deposit of Fish Offal in the Streets by Hawkers.*—This is frequently done, despite warnings by the Sanitary Inspector and myself, and I should like the Council to take action in this matter.

(5.) A van for infected clothing is required, more particularly to take infeeted clothing to the disinfector from houses where the patients are not removed to Hospital.

(6.) The very unsatisfactory condition of Plank Lane Ward, as evidenced (*a*) by its increased general death rate ; (*b*) its increased infantile mortality ; (*c*) its very large Zymotic death rate ; and (*d*) its low birth rate.

The causes of this seem to be the excessive humidity of the atmosphere produced by the amount of water in the immediate vicinity ; the unsatisfactory state of the sewerage work in this particular district ; and the careless habits and the indifference of the majority of the inhabitants.

I have again to thank Mr. Roby for his Report, which is attached.

I am,

Yours obediently,

A. O. BENTHAM,

Medical Officer of Health.

TABLE I.

Vital Statistics of Whole District during 1907 and previous Years. District of Abram.

Year.	Population estimated to Middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all Ages belonging to the District.	
				Under 1 Year of Age.		At all Ages.						
		Number.	Rate*	Number.	Rate per 1000 Births regist'rd.	Number.	Rate*				Number.	Rate*
1	2	3	4	5	6	7	8	9	10	11	12	13
1897	4,934	227	46·0	45	198	102	20·00	..	..	..	..	..
1898	5,054	238	47·0	59	247	130	25·72	..	..	..	128	25·32
1899	5,175	235	45·4	57	242	111	21·40	..	..	..	111	21·4
1900	5,277	252	47·7	57	230	145	27·4	..	..	..	145	27·4
1901	6,325	248	39·2	56	225	164	25·92	..	..	5	169	26·71
1902	6,409	246	38·3	43	178	120	18·72	..	..	4	124	19·34
1903	6,556	270	41·0	56	207	143	21·81	..	..	7	150	22·87
1904	6,660	205	30·7	41	200	123	18·4	2	..	5	128	19·2
1905	6,820	233	34·1	38	163	96	14·07	1	..	4	100	14·6
1906	7,169	238	33·19	31	130	84	11·2	Nil	..	6	90	12·5
Averages for years 1897–1906	6,037	239	40·25	48	202	121	20·51	..	..	..	..	..
1907	7,160	192	26·81	28	145	88	12·29	4	Nil	5	93	12·98

*Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) .. 1,982.

Total population at all ages .. 6,306
Number of inhabited houses .. 1,116
Average number of persons per house 5·65
At Census of 1901.

I.	II.	III.
Institutions within the District receiving sick and infirm persons from outside the District.	Institutions outside the District receiving sick and infirm persons from the District.	Other Institutions, the deaths in which have been distributed among the several localities in the District.
Nil	Wigan Infirmary Wigan Union Hospital	Abram Sanatorium

Is the Union Workhouse within the District? No.

TABLE II.

Vital Statistics of separate Localities in 1907 and previous years.

District of Abram.

Names of Localities.	Whole District.				Abram Brow Ward.				Bamfurlong Ward.				Bickershaw Ward.				Plank Lane Ward.			
Year.	Population estimated to middle of each year	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
1897	4934	227	102	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1898	5054	238	128	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1899	5175	235	111	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1900	5277	252	145	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1901	6325	248	169	56	1752	..	..	..	1985	..	..	..	1420	..	..	..	1144	..	..	..
1902	6409	246	124	43	..	..	35	..	..	..	45	..	..	..	20	..	..	..	24	..
1903	6556	270	150	56	..	..	35	22	..	..	37	13	..	..	32	10	..	..	46	11
1904	6660	205	128	41	..	..	38	12	..	..	30	8	..	..	34	13	..	..	26	8
1905	6820	233	100	38	2128	..	41	21	2139	..	24	11	1467	..	20	2	1086	..	15	4
1906	7169	238	90	31	2192	69	36	14	2373	71	21	8	1480	57	18	5	1124	41	15	4
Averages of Years 1897 to 1906	6037	239	124	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1907	7160	192	93	28	2190	53	24	7	2373	69	30	11	1473	42	19	3	1124	28	20	7

TABLE III.

Cases of Infectious Disease notified during the Year 1907.
District of ABRAM.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							TOTAL CASES NOTIFIED IN EACH LOCALITY.				NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.				Total cases removed to Hospital
	At all Ages	At Ages—Years.						1	2	3	4	1	2	3	4	
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards	Abram Brow Ward	Bam-furlong Ward.	Bicker-shaw Ward.	Plank Lane Ward	Abram Brow Ward	Bam-furlong Ward	Bicker-shaw Ward	Plank Lane Ward	
Diphtheria (including Membraneous Croup)	34	..	3	14	10	7	..	12	18	3	1	3	5	1	..	9
Erysipelas	16	1	3	3	1	8	..	7	7	1	1	..	..	..	..	..
Scarlet Fever	30	..	13	16	1	..	..	11	5	1	13	6	4	1	11	22
Enteric Fever	8	..	1	2	1	4	..	5	2	..	1	4	2	..	..	6
Totals	88	1	20	35	13	19	..	35	32	5	16	13	11	2	11	37

Isolation Hospital, Park Lane, Abram.

TABLE IV.

Cause of, and Ages at, Death during Year 1907.

District of ABRAM.

Cause of Death.	Deaths at the subjoined ages of "Residents" whether occurring in or beyond the District.							Deaths at all ages of "Residents" belonging to localities, whether occurring in or beyond the District.				Total Deaths whether of "Residents" or "Non-Residents" in Public Institutions in the District.
	All Ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	Abram Brow Ward	Bamfurlong Ward	Bickershaw Ward	Plank Lane Ward	
1	2	3	4	5	6	7	8	9	10	11	12	13
Measles	5	..	4	1	..	..	..	1	1	..	3	..
Scarlet Fever	1	..	..	1	..	..	..	..	..	..	1	1
Whooping Cough	4	3	1	..	..	..	..	1	..	..	3	..
Diphtheria (including Membranous Croup	1	..	..	1	..	..	..	..	1	..	..	..
Enteric Fever	3	..	..	2	1	..	..	..	2	..	1	3
Diarrhœa	6	6	..	..	..	..	..	1	3	2	..	..
Erysipelas	1	1	..	..	..	..	..	..	..	..	1	..
Other Septic Diseases ..	1	..	..	..	..	1	..	..	1	..	..	..
Phthisis (Pulmonary Tuberculosis)	7	..	1	2	1	3	..	1	2	2	2	..
Other Tubercular Diseases ..	3	1	1	1	..	..	..	1	2	..	..	..
Cancer, Malignant Disease ..	5	..	..	..	..	3	2	3	1	1	..	..
Bronchitis	7	2	1	1	..	2	1	..	4	1	2	..
Pneumonia	15	5	5	..	..	5	..	4	2	6	3	..
Pleurisy	1	..	..	..	..	1	..	..	1	..	..	..
Venereal Diseases	1	1	..	..	..	..	..	..	..	..	1	..
Premature Birth	2	2	..	..	..	..	..	1	1	..	..	..
Heart Diseases	4	..	..	..	..	4	..	1	1	2	..	..
Accidents	6	..	1	2	1	2	..	5	..	1	..	..
All Other Causes	20	7	2	..	2	3	6	5	8	4	3	..
All Causes	93	28	17	10	5	24	9	24	30	19	20	4

A. O. BENTHAM, *Medical Officer of Health.*

January 8th, 1908.

TABLE V.

District of ABRAM.

INFANTILE MORTALITY DURING THE YEAR 1907.

Deaths from stated Causes in Weeks and Months under One Year of Age.

	CAUSE OF DEATH.	Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 1 Month	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under One Year.
All Causes	Certified	2	1	..	2	5	6	1	1	3	1	3	1	..	..	2	2	25
	Uncertified	1	..	..	..	1	1	..	..	..	1	..	..	..	..	..	..	3
Common Infectious Diseases—Whooping Cough		..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
Diarrhœal Diseases	Diarrhœa, all forms	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	2
	Enteritis, Muco-enteritis, Gastro-enteritis.	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	2
	Gastritis, Gastro-intestinal Catarrh	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	2
Wasting Diseases	Premature Birth	1	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	2
	Atrophy, Debility, Marasmus	1	..	..	..	1	..	..	1	1	..	..	..	..	..	..	..	3
Tuberculous Diseases—Other Tuberculous Diseases		..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Other Causes	Erysipelas	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1
	Syphilis	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
	Meningitis (*not Tuberculous*)	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
	Bronchitis	..	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	2
	Pneumonia	..	..	..	..	..	1	..	..	1	..	2	1	..	..	..	..	5
	Totals	3	1	..	2	6	7	1	1	3	2	3	1	..	..	2	2	28

Births in the Year { legitimate .. 189; illegitimate . 3

Deaths from ALL CAUSES AT ALL AGES, 93.

Population (Estimated to middle of 1907), 7,160.

Deaths in the Year of { legitimate infants, 26. illegitimate infants, 2.

Annual Report of the Medical Officer of Health for Year 1907, for the Urban District of ABRAM.

On the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Laundries, Workplaces, and Homework.

1—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	No. of Inspections.	No. of Written Notices.	No. of Prosecutions.
Workshops (including Workshop Laundries) ..	12	..	..
Workplaces (Other than Outworkers' premises included in Part 3 of this Report)	29	2	..
Total	41	2	..

2—DEFECTS FOUND.

Particulars.	Number of Defects. Found.	Remedied.	Referred to H.M. Inspector.	No. of Prosecutions.
Want of Cleanliness	5	2	..	..
Overcrowding	1	..	..	..
Total	6	2	..	..

4—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the Year.

			Number.
Bakehouses		..	8
Workshops—Tinsmith		1	
Cloggers		7	
Blacksmith		1	
Wheelwright		1	
		—	10
Workplaces—Dressmakers		8	
Baby Linen		1	
Stocking Knitter		1	
Tailor		1	
Clogger and Shoemaker		1	
		—	12
Total Number of Workshops on Register ..		..	30

A. O. BENTHAM,

Medical Officer of Health.

January 22nd, 1908.

TABLE (C.)

COUNTY OF LANCASTER.

SUMMARY OF MEDICAL OFFICER'S REPORT FOR 1907.

Urban District of Abram.

Area in Statute Acres, 1,982. Population (Census) 1901, 6,306. Population (Estimated) 1907, 7,160.

Name of Medical Officer of Health, A. O. Bentham. Salary, £40.

Births registered :—Male, 110 ; Female, 82 : Total, 192.

Deaths registered (Nett deaths belonging to the District) :—Male, 50 ; Female, 43 : Total, 93. Number of Illegitimate Births registered, 3. Deaths of Illegitimates under One Year of age, 2.

Birth Rate, 26·81. Death Rate, 12·98. Rate of Infant Deaths, under 1 Year, to 1,000 Births, 145.

Death Rate from the * seven principal epidemic Diseases per 1,000 of population, 2·79.

Diseases prevalent ? 1. Measles. 2. Whooping Cough. 3. Scarlet Fever. 4. Diphtheria. Period ? 1. October and November. 2. Throughout the year. 3. May, November and December. 4. March and April.

What Action taken ? Distribution of handbills, Fumigation, Removal to Hospital. Any Schools Closed ? Yes. St. Andrew's. If so, for what disease ? Measles.

What is the character of the Hospital Accommodation ? For Small Pox, Corrugated Iron Building. For other Infectious Diseases, Isolation Hospital.

† Is it Joint or otherwise ? (*See footnote*). Only for Abram District. Number of Beds available *for your District ?* 4 for Small Pox, and 8 for other cases.

Number of Cases treated ? Small Pox, Nil ; Diphtheria, 9 ; Scarlet Fever, 22 ; Enteric Fever, 6 : Total, 37. Deaths in Hospital ? 4. From what causes ? Scarlet Fever 1, and Enteric Fever 3.

How is Disinfection carried out ? Houses, Sulphur Fumigation. Clothing, Bedding, &c., Steam Disinfector. Apparatus used, Manlove, Alliot, and Co. Where situated, Isolation Hospital.

Number of cases of Infectious Disease *Notified ?* 88. Are any Diseases not specifically mentioned in the Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox, &c.) ? If so, what are they ? No. Has any arrangement been made for the "voluntary" notification of Phthisis ? No. Is Diphtheritic Anti-toxin supplied to Medical Practitioners free of charge ? Yes.

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*Small Pox ; Scarlet Fever ; Diphtheria and Membranous Croup ; Fever—Typhus, Enteric and Continued ; Measles ; Whooping Cough and Diarrhœa.

† If you have the Joint use of Isolation Hospital belonging to neighbouring Authority state nature of agreement. Is any Retaining Fee paid ?

SUMMARY—continued.

Action taken under "The Housing of the Working Classes Acts"	No. of Houses condemned? None. Closed? None. Demolished? None. Made habitable? None.
From where is the Water Supply obtained, and what is its condition? Is it subject to your Inspection?	Council's Service Reservoir at Stubshaw Cross, supplied from Liverpool Corporation Mains. A sample has been analysed and pronounced good. Yes.
Is Scavenging carried out satisfactorily? ..	Yes.
By Sanitary Authority, Contract, or otherwise?	Two-thirds by Council, and one-third by contract.
How is the Refuse disposed of?	In special tips.
Has a Destructor been provided?	No.
What is the character of Drainage and the form of Sewage Disposal?	As before described.
Canal Boats (Number Inspected, &c.)? ..	52. 2 Infringing Regulations. One had no name; the other the marking did not agree with Regulations.
What is the condition of the Bakehouses? ..	Generally satisfactory.
Slaughter Houses?	Have none.
Has a Public Abattoir been provided? ..	No.
Lodging Houses?	Have none.
Are they Registered?	No.
Dairies, Cowsheds and Milkshops—Are they periodically inspected?	Yes.
What is their condition?	Fair generally.
Have Regulations been made under the Order of the Local Government Board? ..	Yes.
Are they enforced?	Yes.
What amount of air space in cubic feet is required for each cow?	500.
Food unfit for Human Consumption—Amount seized?	Nil.
Department of Inspector of Nuisances.. ..	No. of Notices served? .. .. .. 120 Nuisances remedied? .. .. .. 348 No. of Legal Proceedings taken, and result? Nil
Closet Accommodation of the District ..	No. of Privy Middens? 1,154. Pail Closets? 19. Fresh Water Closets? 73. Waste Water Closets? 2. No. of Privy Middens converted during 1907? To W.C.'s, 20; to Pai's, &c., nil.
Smoke	No. of Observations? Nil. No. of Legal Proceedings taken, and result? Nil. What is the time limit allowed for the emission of black smoke per hour? Have no time limit.
Has the Authority adopted—	
(a) "The Infectious Disease (Prevention) Act, 1890"?	No.
(b) "The Public Health Acts Amendment Act, 1890"?	Yes.
(c) "The Notification of Births Act, 1907"?	No.
If not, have any steps been taken with a view to its adoption?	It is under consideration.

SANITARY INSPECTOR'S ANNUAL REPORT FOR 1907.

———: o :———

I beg to give below a Summary of the work carried out in the Inspector of Nuisances and Sanitary Departments for the year ending December 31st, 1907 :—

Stopped drains opened and cleaned	66
Drains taken up and relaid or renewed	24
Premises redrained and connected to main sewer	1
Farms redrained	1
Leaking and defective ashpits and closets repaired	44
Deep wet ashpits rendered dry	1
Privy middens rebuilt	3
Dry ashpits built	1
Privies converted to clean water closets	20
Shippons supplied with town's water	4
Back passages cleaned and ashed	13
Paving back yards and round gullies	32
Defective slop-pipes, waste pipes and vent shafts	14
Downspouts disconnected from drains	58
Keeping pigs as a nuisance	2
Poultry and pigeons removed from house yards	6
Defective spouts, floors, roofs, &c.	4
Overcrowding	1
Houses limewashed	42
Accumulations of manure, &c.	3
Dirty premises	8
	348

120 notices were served, in addition to verbal intimations.

Additional ventilators to the main sewer have been erected at Barracks, Bamfurlong, and Abram Brow.

A street watering cart has been obtained, and proved very satisfactory, both for watering streets and flushing sewers.

Factory and Workshops Act, 1901.—Inspections have been made of all the workplaces, and one case of overcrowding is being dealt with.

Notices were served for several places in need of limewashing.

Places on Register :—

Workshops :—	Blacksmith	1	
	Wheelwright	1	
	Tinsmith	1	
	Cloggers	7	
		—	10
Workplaces :—	Dressmakers	8	
	Baby Linen	1	
	Stocking Knitter	1	
	Tailor	1	
	Clogger and Shoemaker	1	
		—	12
	Bakehouses		8
			—
			30

Sewage Disposal Works.—The thoroughly satisfactory condition of these works is evidenced by the fact that only three samples of the effluent were taken by the Mersey and Irwell Inspector, and all were "very good."

Disinfection.—85 houses and 1 school have been fumigated with sulphur, and the following articles passed through the steam disinfector :—

Beds	38
Bolsters and Pillows	81
Covers	6
Sheets	31
Blankets	41
Quilts	49
Nightdresses	6
Dresses and Frocks	8
Underclothing	68
Caps	18
Trousers, Jackets and Waistcoats	54
Cushions	2
Sundry Small Articles	74
	—
	476

Nightsoil.—This work has been carried out in as satisfactory a manner as possible.

The system of depositing refuse in house yards has been abolished.

The house gullies have again been cleaned and disinfected.

New Property.—No new property has been completed during the year, but plans for four houses were passed.

The Council have decided to require W.C.'s to be provided for all new houses in future.

I beg to be,

Obediently yours,

W. H. ROBY,

Inspector of Nusiances.